

## Product datasheet for **RN200428**

### **Asic2 (NM\_001034014) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Asic2 (NM_001034014) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Asic2
Synonyms:	Accn1; BNaC1; BNC1k; MDEG; MDEG1; MDEG2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN200428 representing NM\_001034014  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACCTCAAGGAGAGCCCCAGTGAGGGCAGCCTGCAACCTTCCAGTATCCAGATCTTCGCCAATACCT  
 CCACTCTCCATGGCATCCGCCACATCTTCGTGTATGGGCCGTGACCATCCGGCGTGTGCTTTGGGCAGT  
 GGCTTCGTCCGATCCCTGGGCCTGCTGCTGGTGGAGAGCTCGGAGAGGGTGTCTACTATTTCTTTAT  
 CAGCATGTTACCAAGGTGGATGAAGTGGTGGCCAGAGCCTGGTCTTCCAGCTGTGACCCTCTGCAACC  
 TCAATGGCTTCCGGTTCTCCAGGCTTACCACCAACGACTGTACCACGCTGGGGAGTTGTGGCCCTGCT  
 GGATGTCAACCTACAGATTCCCACCCGCATCTGGCAGACCCACGGTGTGGAGGCCCTCCGACAGAAG  
 GCCAATTCAAACACTACAAACCGAAGCAGTTCAGCATGCTGGAGTTCCTGCACCGGGTAGGCCATGACC  
 TGAAGGATATGATGCTCTACTGCAAGTTCAAGGGGCAGGAGTGTGGGCATCAAGACTTCACCACAGTGT  
 TACAAAATACGGGAAGTGTACATGTTAACTCAGGCGAGGATGGCAAGCCGCTGCTCACCACGGTCAAG  
 GGGGGGACGGGCAACGGGCTGGAGATCATGCTGGACATTCAGCAAGATGAGTACCTGCCATCTGGGGAG  
 AGACAGAGGAAACAACGTTTGAAGCAGGAGTGAAGTTTCAGATCCACAGTCAGTCTGAGCCGCCTTTCAT  
 CCAAGAGCTGGGCTTTGGGGTGGCTCCGGGGTTCAGACCTTCGTGGCCACACAAGAGCAGAGGCTCACA  
 TATCTGCCCCACCATGGGGGAGTGCCGGTCTCAGAGATGGGACTCGACTTCTTTCTGTTTACAGCA  
 TCACAGCTGTCCGATTGACTGTGAGACCCGCTACATCGTGGAGAAGTGAAGTCCGCATGGTCCACAT  
 GCCAGGGGACGCCCTTTCTGCACCCCTGAGCAGCACAAGGAGTGTGCAGAGCCTGCCCTCGGTCTACTG  
 CCATGGTGAAGATCCCCAGCAAGACGTGAGCCAGTACTTAGAGAAGAAATTTAACAAATCGGAAAAATA  
 TATCTCAGAGAACATTCTTGTCTGGACATATTTTTGAGGCGCTCAATTACGAAACAATTGAACAGAAG  
 AAGGCGTATGAAGTTGCTGCCTTACTTGGTGCATCGGTGGTTCAGATGGGACTGTTTCATTGGTGTAGTC  
 TCCTCACAATACTAGAGCTCTTTGATTATTTATGAGCTGATCAAAGAGAAGCTATTAGACCTGCTTGG  
 CAAAGAAGAAGAGGAAGGGAGCCACGATGAGAACATGAGCACCTGTGACACAATGCCAAACCACTCTGAA  
 ACCATCAGCCACACTGTGAACGTGCCCTGCAGACAGCTTTGGGCACCCTGGAGGAGATTGCCTGCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001034014

**Insert Size:** 1539 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_001034014.1](#), [NP\\_001029186.1](#)

**RefSeq Size:** 2565 bp

**RefSeq ORF:** 1539 bp

**Locus ID:** 25364

**UniProt ID:** [Q62962](#)

**Cytogenetics:** 10q26

**Gene Summary:** member of the degenerin/epithelial Na(+) channel superfamily; permeable for Na(+), K(+) and Li(+); mutations may lead to a form of hereditary neurodegeneration; may be important for pain sensation [RGD, Feb 2006]  
Transcript Variant: This variant (MDEG1) uses an alternate 5' terminal exon compared to variant MDEG2. The resulting protein (isoform MDGEG1) is shorter and has a distinct N-terminus compared to isoform MDEG2.